

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits    | Search Query  | DBs                          | Default Operator | Plurals | Time Stamp          |
|-------|---------|---|------------------------------|------------------|---------|---------------------|
| L1    | 1       | 10/645868.app.  | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L2    | 2291    | ((369/47.14) or<br>(369/53.15) or<br>(369/44.32)).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR | OR               | OFF     | 2009/11/19<br>13:50 |
| L3    | 4679    | defect near4 class<br>\$10                              | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L4    | 32      | L2 and L3   | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L5    | 9       | (defect near8 class<br>\$10 and L2) not L4              | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L6    | 39854   | defect near6 (class<br>type length size)                | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L7    | 471     | L6 and L2   | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L8    | 418     | defect near4 (class<br>type length size)<br>and L2      | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L9    | 1701588 | record\$4 writ\$4                                       | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L10   | 405     | L9 same L6 and L2                                       | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L11   | 37539   | (stop\$4 halt\$4)<br>near4 L9                           | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L12   | 12      | L11 same L6 and L2                                      | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L13   | 131     | (defect near4 (class<br>type)) near8 length             | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L14   | 5       | L13 and L2  | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L15   | 3731    | defect near4 length                                     | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L16   | 71      | L15 and L2  | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L17   | 844     | defect near4<br>tracking                                | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |
| L18   | 86      | L17 and L2  | US-PGPUB;<br>USPAT           | OR               | ON      | 2009/11/19<br>13:50 |

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|-----|-------|--|------------------------|----|-----|------------------|
| L19 | 43    | L17 near4 error and L2   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L20 | 13    | defect near4 tracking near4 hold \$4 and L2                              | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L21 | 31568 | (servo tracking) near4 error   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L22 | 211   | L21 near4 defect   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L23 | 66    | L22 and L2   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L24 | 6     | L22 same L11   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L25 | 86    | L11 near6 defect   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L26 | 39    | L25 and "369".clas.  | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L27 | 44897 | defect near6 (long length size severity type class)                      | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L28 | 37539 | (stop\$4 halt\$4) near4 (record\$4 writ \$4)                             | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L29 | 23    | L27 same L28   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L30 | 760   | (defect and length). ab.   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L31 | 33    | L30 and "369".clas.  | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L32 | 2291  | ((369/47.14) or (369/53.15) or (369/44.32)).CCLS.                        | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/11/19 13:50 |
| L33 | 49397 | defect near4 (small \$3 short\$3 large\$1 long\$3 size length)           | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L34 | 481   | L33 and L32  | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L35 | 51    | L34 and L28  | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L36 | 47    | ("4406000"   "4546462"   "4554652"   "4571716").PN. OR ("4730290").URPN. | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |

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| L37 | 51307   | defect\$4 near4<br>(class\$10 type judg<br>\$4 determin\$4)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/11/19<br>13:50 |
| L38 | 671     | L37 and L32  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/11/19<br>13:50 |
| L39 | 3771    | defect\$4 near3<br>length  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/11/19<br>13:50 |
| L40 | 70      | L39 and L32  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/11/19<br>13:50 |
| L41 | 8       | defect\$5 same ecc<br>same (defect adj<br>area) same (decid<br>\$4 determin\$4 judg<br>\$4 class\$10)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/11/19<br>13:50 |
| L42 | 30      | ("3997876"  <br>"4434487"  <br>"4549295"  <br>"4571716"  <br>"4791622"  <br>"4980878"  <br>"5172381"  <br>"Re34003").PN. OR<br>("5442638").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/11/19<br>13:50 |
| L43 | 4       | L42 and "369".clas.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2009/11/19<br>13:50 |
| L44 | 23595   | defect\$4 near4<br>(small short)   | US-PGPUB;<br>USPAT           | OR | ON | 2009/11/19<br>13:50 |
| L45 | 3025032 | ignor\$4 continu\$4<br>nothing<br>reproducible   | US-PGPUB;<br>USPAT           | OR | ON | 2009/11/19<br>13:50 |
| L46 | 295     | L44 near10 L45   | US-PGPUB;<br>USPAT           | OR | ON | 2009/11/19<br>13:50 |
| L47 | 8       | L46 and L32  | US-PGPUB;<br>USPAT           | OR | ON | 2009/11/19<br>13:50 |
| L48 | 11      | L46 and "369".clas.  | US-PGPUB;<br>USPAT           | OR | ON | 2009/11/19<br>13:50 |
| L49 | 21950   | defect\$4 near4<br>correct\$4  | US-PGPUB;<br>USPAT           | OR | ON | 2009/11/19<br>13:50 |
| L50 | 233     | L49 and L32  | US-PGPUB;<br>USPAT           | OR | ON | 2009/11/19<br>13:50 |
| L51 | 1434    | L49 near10 (size<br>length severity type<br>class)   | US-PGPUB;<br>USPAT           | OR | ON | 2009/11/19<br>13:50 |

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| L52 | 25      | L51 and L32  | US-PGPUB;<br>USPAT           | OR | ON  | 2009/11/19<br>13:50 |
| L53 | 49497   | (detect\$4 measur\$4<br>classif\$5) near4<br>defect\$4   | US-PGPUB;<br>USPAT           | OR | ON  | 2009/11/19<br>13:50 |
| L54 | 5626898 | size length severity<br>type class   | US-PGPUB;<br>USPAT           | OR | ON  | 2009/11/19<br>13:50 |
| L55 | 7487    | L53 near10 L54   | US-PGPUB;<br>USPAT           | OR | ON  | 2009/11/19<br>13:50 |
| L56 | 128     | L55 and L32  | US-PGPUB;<br>USPAT           | OR | ON  | 2009/11/19<br>13:50 |
| L57 | 16      | ("4984230"  <br>"5220569"  <br>"5235585"  <br>"5237553"  <br>"5677899"  <br>"6160778").PN. OR<br>("6621782").URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/11/19<br>13:50 |
| L58 | 28760   | ((servo tracking)<br>near3 error)  | US-PGPUB;<br>USPAT           | OR | ON  | 2009/11/19<br>13:50 |
| L59 | 81      | L28 near10 L58   | US-PGPUB;<br>USPAT           | OR | ON  | 2009/11/19<br>13:50 |
| L60 | 5       | L59 and L32  | US-PGPUB;<br>USPAT           | OR | ON  | 2009/11/19<br>13:50 |
| L61 | 1       | ("4554652").PN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2009/11/19<br>13:50 |
| L62 | 24      | ("4363116").PN. OR<br>("4554652").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/11/19<br>13:50 |
| L63 | 7       | ("4688202"  <br>"5502698"  <br>"5606542"  <br>"6259663"  <br>"6341113").PN. OR<br>("6819638").URPN.                | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON  | 2009/11/19<br>13:50 |
| L64 | 13      | tsuji-takao\$.in.  | US-PGPUB;<br>USPAT           | OR | ON  | 2009/11/19<br>13:50 |
| L65 | 6836    | recordable near3<br>(dvd digital adj2<br>(disc disk))  | US-PGPUB;<br>USPAT           | OR | ON  | 2009/11/19<br>13:50 |
| L66 | 26      | L65 near10 defect  | US-PGPUB;<br>USPAT           | OR | ON  | 2009/11/19<br>13:50 |
| L67 | 1200    | (writ\$4 record\$4)<br>near6 (defect\$4<br>near3 (class type<br>level length size))                                | US-PGPUB;<br>USPAT           | OR | ON  | 2009/11/19<br>13:50 |

|     |      |   |                        |    |     |                  |
|-----|------|---|------------------------|----|-----|------------------|
| L68 | 2291 | ((369/47.14) or (369/53.15) or (369/44.32)).OCLS.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/11/19 13:50 |
| L69 | 192  | L67 and L68   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L70 | 279  | (writ\$4 record\$4) near6 ((detect\$4 measur\$4) near6 defect\$4 near6 (class type level length size))                        | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L71 | 112  | L70 and "369".clas.   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L72 | 219  | defect near4 (servo tracking) near4 (error abnormal\$4)   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L73 | 43   | L72 near10 (record \$4 writ\$4)   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L74 | 21   | L73 and "369".clas.   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L75 | 133  | L72 and "369".clas.   | US-PGPUB; USPAT        | OR | ON  | 2009/11/19 13:50 |
| L76 | 47   | ("4406000"   "4546462"   "4554652"   "4571716").PN. OR ("4730290").URPN.  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |
| L77 | 1    | 09/368359.app.  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |
| L78 | 16   | ("4984230"   "5220569"   "5235585"   "5237553"   "5677899"   "6160778").PN. OR ("6621782").URPN.                              | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |
| L79 | 2    | ((stop\$4 halt\$4) near3 (record\$4 writ \$4)) near10 defect \$4 near10 ((servo track\$4 focus\$4) near3 (error abnormal\$4)) | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |
| L80 | 270  | ((stop\$4 halt\$4) near3 (record\$4 writ \$4)) near10 defect \$4  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |

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|-----|------|--|------------------------|----|-----|------------------|
| L81 | 2291 | ((369/47.14) or (369/53.15) or (369/44.32)).OCLS.  | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/11/19 13:50 |
| L82 | 60   | L80 and L81  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |
| L83 | 24   | ("4363116").PN. OR ("4554652").URPN.   | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |
| L84 | 202  | ((stop\$4 halt\$4 interrupt\$4 cancel \$4) near3 (record\$4 writ\$4)) near10 ((servo track\$4 focus\$4) near3 (error abnormal\$4))                           | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |
| L85 | 121  | L84 and "369".clas.  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |
| L86 | 946  | (off adj track (servo track\$4 focus\$4) near3 (error abnormal\$4)) near6 hold\$4  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |
| L87 | 24   | L86 near10 defect  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |
| L88 | 13   | ("4688202"   "4701603"   "4703468"   "4722079"   "4764860"   "5245599"   "5436877"   "5481526"   "5623465"   "5818804"   "6510112").PN. OR ("6920093").URPN. | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |
| L89 | 3    | defect near4 (recording writing) near10 ((track\$4 focus\$4 servo) near3 (hold runout))  | US-PGPUB; USPAT; USOCR | OR | ON  | 2009/11/19 13:50 |

|     |     |  |                    |    |    |                     |
|-----|-----|--|--------------------|----|----|---------------------|
| L90 | 8   | defect near6 (record<br>\$4 writ\$4) near6<br>((servo track\$4<br>focus\$4) near3<br>(hold keep))  | US-PGPUB;<br>USPAT | OR | ON | 2009/11/19<br>13:50 |
| L91 | 51  | (defect\$4 near3<br>(length size value<br>class classification<br>type time)) near10<br>((servo focus\$4<br>track\$4) near3 (hold<br>\$4 keep\$4 maintain<br>\$4)) | US-PGPUB;<br>USPAT | OR | ON | 2009/11/19<br>13:50 |
| L92 | 23  | L91 and "369".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2009/11/19<br>13:50 |
| L93 | 1   | (defect\$4 near3<br>(length size value<br>class classification<br>type time)) near10<br>((servo focus\$4<br>track\$4) near3 (hold<br>\$4 keep\$4 maintain<br>\$4)) | EPO; JPO           | OR | ON | 2009/11/19<br>13:50 |
| L94 | 22  | defect\$4 near10<br>((servo focus\$4<br>track\$4) near3 (hold<br>\$4 keep\$4 maintain<br>\$4))   | EPO; JPO           | OR | ON | 2009/11/19<br>13:50 |
| L95 | 58  | (off near3 track)<br>near6 (speed<br>velocity) and "369".<br>clas.   | US-PGPUB;<br>USPAT | OR | ON | 2009/11/19<br>13:50 |
| L96 | 429 | defect near10<br>(speed velocity)<br>and "369".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2009/11/19<br>13:50 |
| L97 | 58  | ((detect\$4 measur<br>\$5 determin\$4<br>length) near4<br>defect) near10<br>(speed velocity)<br>and "369".clas.  | US-PGPUB;<br>USPAT | OR | ON | 2009/11/19<br>13:50 |
| L98 | 5   | (defect near10 (off<br>near3 track)) same<br>(speed velocity)<br>and "369".clas.   | US-PGPUB;<br>USPAT | OR | ON | 2009/11/19<br>13:50 |

|      |     |   |                 |    |    |                  |
|------|-----|---|-----------------|----|----|------------------|
| L99  | 0   | defect\$4 near10 (tim\$4 length) near10 ((servo near3 (stable status)) (off near3 track)) near10 (speed velocity) and "369".clas. | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:50 |
| L100 | 9   | defect\$4 near10 (tim\$4 length) and ((servo near3 (stable status)) (off near3 track)) near10 (speed velocity) and "369". clas.   | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:50 |
| L101 | 83  | (defect\$4 near6 (length size tim\$4)) near10 (speed velocity) and "369". clas.   | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:50 |
| L102 | 81  | ((detect\$4 measur \$4 classif\$7) near4 defect\$4) near10 (speed velocity) and "369".clas.                                       | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:50 |
| L103 | 64  | (off near2 track) near10 (speed velocity) and "369". clas.  | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:50 |
| L104 | 48  | defect\$4 near4 (categor\$8 type) near10 (length tim \$4) and "369".clas.   | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:50 |
| L105 | 107 | (defect\$4 off near2 track) near10 (length tim\$4 duration) near10 (speed velocity) and "369".clas.                               | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:50 |
| L106 | 233 | (defect\$4 (off near2 track) (track\$4 near3 error)) near10 ((disc disk) near3 (speed velocity)) and "369". clas.                 | US-PGPUB; USPAT | OR | ON | 2009/11/19 13:50 |



|      |    |   |                    |    |    |                     |
|------|----|---|--------------------|----|----|---------------------|
| L107 | 34 | (optical near3 disc<br>near3 apparatus)<br>near6 different<br>near6 (speed<br>velocity) and "369".<br>clas. | US-PGPUB;<br>USPAT | OR | ON | 2009/11/19<br>13:50 |
| L108 | 11 | (optical near3 disc<br>near3 apparatus)<br>near6 variation<br>near6 (speed<br>velocity) and "369".<br>clas. | US-PGPUB;<br>USPAT | OR | ON | 2009/11/19<br>13:50 |

**11/ 19/ 2009 2:01:26 PM****C:\ Documents and Settings\ clamb\ My Documents\ EAST\ Workspaces\ 10645868 defect  
class.wsp**